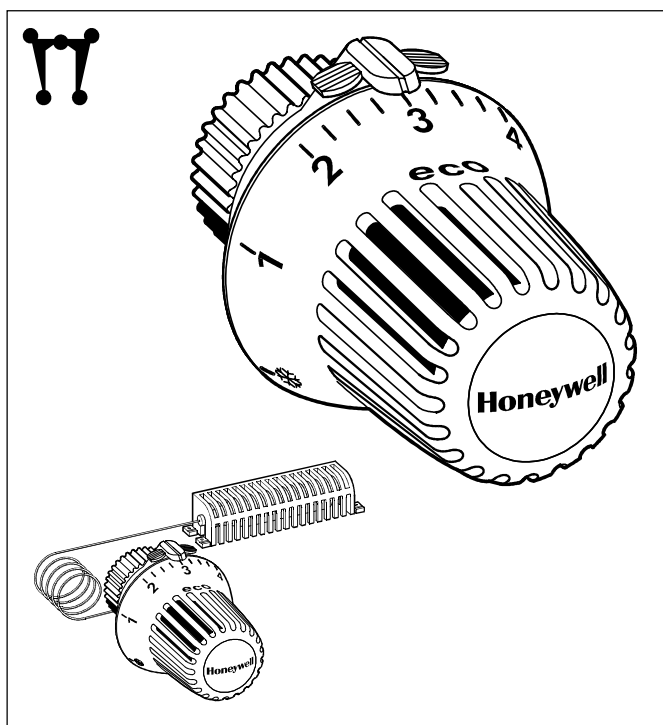


## T6000 Series Thera-3

### RADIATOR THERMOSTATS WITH ERGONOMICAL DESIGN

#### PRODUCT DATA



#### Design

The thermostat consists of:

- Handwheel with lid and socket
- Sensor with support cage
- Spindle assembly
- Connection nut

#### Materials

- Handwheel, lid and socket made of plastic, white to RAL9010 or anthracite
- Support cage and spindle construction made of plastic
- Sensor filled with liquid or wax
- Connection nut made of brass, nickel-plated

#### Application

Thermostats are installed onto thermostatic valve bodies (TRV bodies). The combination of thermostat and TRV body, (TRV), controls the room temperature by regulating the flow of heating water into a heat exchanger.

TRVs are installed in water-based heating systems at the supply or, less commonly at the return connection of radiators or other heat exchangers.

Thera-3 type thermostats conform to the European Standard EN215 when used with Honeywell TRV bodies according to table 2 on page 8.

**Thera-3 with M30 x 1,5 connection** are suitable for all Honeywell TRV bodies and radiator inserts as well as other TRV bodies and radiator inserts with M30 x 1,5 connection and 11,5 mm closing dimension.

**Thera-3-DA with Danfoss type connection** are suitable for TRV bodies and valve inserts with a Danfoss RA type compatible snap connection.

**Thera-3-HZ with Herz type connection** are suitable for TRV bodies with M28 x 1,5 connection and 9,5 mm closing dimension.

#### Features

- Thera-3 with M30 x 1.5 connection conforms to European standard EN215
- Available with liquid- or wax-filled sensing element
- Modern ergonomical design
- Equipped with easy to use limiting tabs

#### Specifications

<b>Thermostat connection</b>	<ul style="list-style-type: none"> <li>• M30 x 1,5</li> <li>• Danfoss type snap connection</li> <li>• M28 x 1,5 (HZ-type)</li> </ul>
<b>Setpoint range</b>	<ul style="list-style-type: none"> <li>• 0 - * - 1..5 (with zero-position)</li> <li>• * - 1..5 (without zero-position)</li> </ul>
<b>Temperature range</b>	<p>With zero-position ('0'):</p> <p>1...28°C (34...82°F)</p> <p>Without zero-position:</p> <p>6...28°C (43...82°F)</p>
<b>Closing dimension</b>	<p>11,5 mm (Thera-3)</p> <p>9,5 mm (Thera-3-HZ)</p>

NOTE: Zero-position is also thermostatically controlled – when temperature falls the TRV may open.

Dimensions

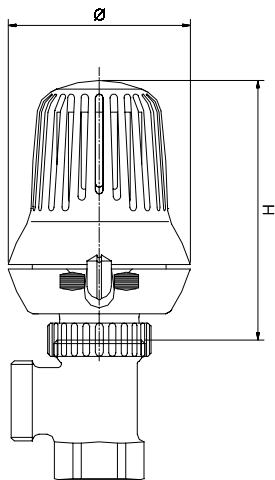


Fig. 1. THERA-3 with internal sensor

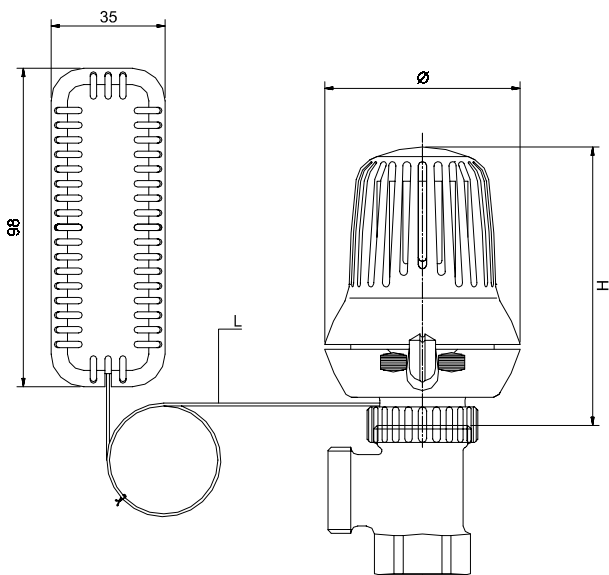


Fig. 2. THERA-3 with remote sensor

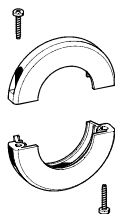
Table 1. Dimensions

Item	H closed	H open	Ø	L
Fig. 1 and Fig. 2	87	93	60	0,8 – 2,0 – 5,0 – 8,0 m

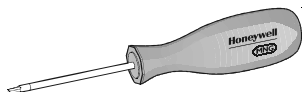
All dimensions in mm if not stated differently.

Accessories

Theft-protection ring, white



Screwdriver for theft-protection ring



Cover cap for customer specific logos, white



TA6900A001

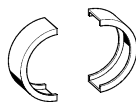
Trim ring, white



TA1000B001

TA6900B001

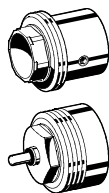
Cover ring, white



TA1000A001

TA6000A001

Adapters



DA-Adapter from Danfoss snap connection to M30 x 1.5

TA1010DA01

HZ-Adapter from M28 x 1.5 with 9,5 mm closing dimension to M30 x 1.5 with 11,5 mm closing dimension

TA1010HZ01

## Ordering Information

Item	Zero-position ('0')	Connection	Capillary tube length	Colour	Cap	OS-No.
<b><i>Thera-3, Thera-3-DA and Thera-3-HZ with internal sensor</i></b>						
Liquid-filled sensing element		M30 x 1,5	—	white	MNG	T6001
		M30 x 1,5	—	white	none	T6001C
		M30 x 1,5	—	white	Honeywell	T6001H
	•	M30 x 1,5	—	white	MNG	T6001W0
	•	M30 x 1,5	—	white	none	T6001W0C
	•	M30 x 1,5	—	white	Honeywell	T6001W0H
		M30 x 1,5	—	anthracite	MNG	T6011
	•	M30 x 1,5	—	anthracite	MNG	T6011W0
		DA type	—	white	MNG	T6001DA
		DA type	—	white	none	T6001DAC
		DA type	—	white	Honeywell	T6001DAH
	•	DA type	—	white	MNG	T6001DAW0
	•	DA type	—	white	none	T6001DAW0C
	•	DA type	—	white	Honeywell	T6001DAW0H
		M28 x 1,5	—	white	MNG	T6001HZ
	•	M28 x 1,5	—	white	MNG	T6001HZW0
Wax-filled sensing element		M30 x 1,5	—	white	MNG	T6002
		M30 x 1,5	—	white	none	T6002C
		M30 x 1,5	—	white	Honeywell	T6002H
	•	M30 x 1,5	—	white	MNG	T6002W0
	•	M30 x 1,5	—	white	none	T6002W0C
	•	M30 x 1,5	—	white	Honeywell	T6002W0H
<b><i>Thera-3 and Thera-3-DA with remote sensor</i></b>						
Liquid-filled sensing element		M30 x 1,5	0,8 m	white	MNG	T600108
		M30 x 1,5	2,0 m	white	MNG	T600120
		M30 x 1,5	5,0 m	white	MNG	T600150
		M30 x 1,5	8,0 m	white	MNG	T600180
	•	M30 x 1,5	0,8 m	white	MNG	T600108W0
	•	M30 x 1,5	2,0 m	white	MNG	T600120W0
	•	M30 x 1,5	5,0 m	white	MNG	T600150W0
	•	M30 x 1,5	8,0 m	white	MNG	T600180W0
	•	M30 x 1,5	0,8 m	white	Honeywell	T600108W0H
	•	M30 x 1,5	2,0 m	white	Honeywell	T600120W0H
		DA type	2,0 m	white	MNG	T600120DA
	•	DA type	2,0 m	white	MNG	T600120DAW0

## EN215 Information

OS-Nos. T6001, T6001W0, T6002, T6002W0, T6001xx and T6001xxW0 type Thera-3 thermostats in connection with below TRV bodies (marked ●) conform to the European Standard EN215. The highlighted boxes identify available body patterns of one certain valve type.

**Table 2. Comparison of Thera-3 specs and EN 215 requirements**

	<b>Thera-3</b>	<b>EN 215 requirements</b>
<b>Min. setpoint temperature</b>	6°C (43°F)	5...12°C (41...54°F)
<b>Max. setpoint temperature</b>	28°C (82°F)	≤ 32°C (90°F)
<b>Hysteresis</b>	≤ 0,3K	≤ 1,0K
<b>Influence of differential pressure</b>	0,1...0,5K	≤ 1,0K
<b>Influence of static pressure</b>	0,4K	≤ 1,0K
<b>Influence of heating medium</b>	0,4K	≤ 1,5K
<b>Response time</b>	22 min.	≤ 40 min.

NOTE: Influence of differential pressure depends on used TRV body.

**Table 3. EN 215 cross reference**

Valve type	Angle to DIN	Straight to DIN	Angle to NF	Straight to NF	Compact angle	Compact straight	Horizontal angle	Corner angle	Swanneck	Other	Angle (return)	Straight (return)
BB	•	•	•	•	•	•						
KV <sub>3</sub>												
KV <sub>4</sub>												
KV <sub>5</sub>	•	•	•	•								
UBG	•	•	•	•								
GB										•		
SL	•	•	•	•								
V	•	•	•	•	•	•						
FV	•	•	•	•	•	•						
SC												
H												

## Setpoint

THERA-3 type thermostats with zero-position ('0')

Setpoint	0	❄	1	2	3	4	5
°C	1	6	12	16	20	24	28
°F	34	43	54	61	68	75	82

NOTE: All °C and °F-values approximate.

NOTE: Heating can freeze when thermostats with zero-position are set at position '0'.

NOTE: Zero-position is also thermostatically controlled – when temperature falls the TRV may open.

THERA-3 type thermostats without zero-position ('0')

Setpoint	❄	1	2	3	4	5
°C	6	12	16	20	24	28
°F	43	54	61	68	75	82

## Installation Examples

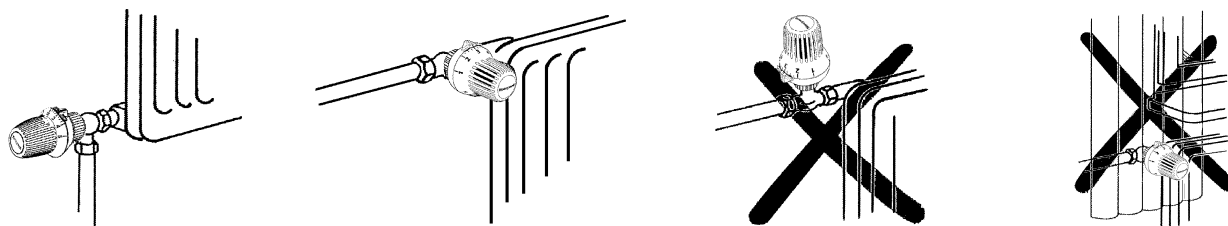


Fig. 3. Installation of THERA-3 with internal sensor

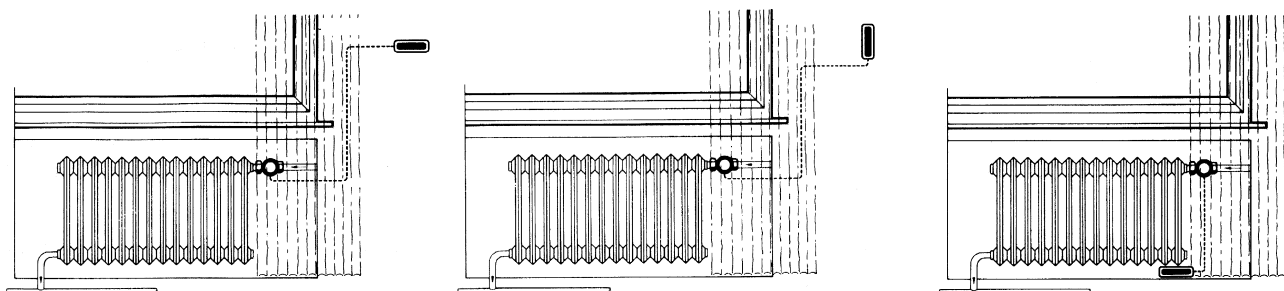


Fig. 4. Installation of THERA-3 with remote sensor

**Honeywell**

**Home and Building Control**

Honeywell AG  
Zu den Ruhrwiesen 3  
D-59755 Arnsberg-Neheim

Phone: (49) 2932 9880  
Fax: (49) 2932 988239  
[mng@honeywell.com](mailto:mng@honeywell.com)

<http://europe.hbc.honeywell.com>